

## THS Winners Chosen At Fair

Esters, an Alpha Gun, and Polyhybrids were some of the subjects on the top science projects chosen winners at the Tucson High Science Fair held Feb. 27, in the THS cafeteria.

Grand prize was copped by Jim Miller with his project entitled "Determination of the Rate Constants for the Hydrolysis of Esters." Miller also took first place in the chemistry division. Marian Kaplan took second grand prize and first place in the Senior Biological division with her project entitled "The Crossing of Polyhybrids." Geoffrey Busse drew the third grand prize with his "Alpha Gun." He also took first place in the Physics division.

In second place in the biological division was Norman Kaderlan with his project "The Phosphorous Metabolism of *Plenera*." "Tissue Culture" by Sandra Gause and Diana Schubel took third place.

Tom Shackelford took second place in Chemistry with his project entitled "Different Methods of Obtaining Brass of Electrodeposition of Brass." Third place was copped by Binx Selby with his project, "Methylation of Gallic Acid."

In the Mathematics division, first place was taken by Gary Walker and Bill Reet with their project of "Revolvable Cone and Cylinder." Bob Temple with his project "Music in the Air" took second place, and "Model of Cylinder, Hyperbolic Paraboloid, and Cones" by Kirk McDonald and Eric Ek took third place.

Second place in the Physics division was taken by Bob Roger's "Thinking Machine, and Darrell Collins with his "Study of the Effects of Temperature on Resistance" took third place.

In the Junior High division, first grand prize was taken by Dale Iemscher of Mansfeld, with his project on "Heredity," second and third grand prizes were taken by Mario Villa of John Spring with his project on the "Electric Age" and Carmen Gonzales also of Spring with her project entitled "The Hatching of an Egg."

Judges for the fair were Dr. Millard G. Seely, professor of Chemistry, Dr. James McDonald, atmospheric physics, and Dr. Edwin Kurtz, professor of botany.